radiation was increased from 45 to 75 mouries and the СТС-1 (STS-1) counters changed for СТС-8 (STS-8). This approximately doubled the sensitivity of the apparatus. Using a contactless weight measurer БИВ (BIV), developed by TsNIKhB (in the Leningrad 'Kartontol'" plant) continuous weight control of a moving strip of roofing paper was carried out with a mean error of not more than + 3%. The determination of the amount of bitumen in pergamyn was carried out using two BIV meters, one of which measured the weight of cardboard and the other the weight of the pergamyn. A system for automatic measurement of the density of the cardboard from two parameters, weight and thickness, has also been installed. [Abstracter's note: Complete translation.]

ZEVIN, L.S.; UMANSKIY, M.M.; KHEYKER, D.M.; PANCHENKO, Yu.M.

Diffractometric methods in precision measurements of the parameters of elementary cells. Kristallografiia 6 no.3:348-356 My-Je '61. (MIRA 14:8)

1. NIIasbesttsement i Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

(X rays--Diffraction) (Crystallography)

KHEYKER, D.M., kand.fiziko-matematicheskikh nauk

"Apparatus for X-ray diffraction studies" by M.M.Umanskii.
Reviewed by D.M.Kheiker. Zav.lab. 27 no.6:767-768 '61.
(MIRA 14:6)

(X rays--Diffraction)
(Umanskii, M.M.)

S/048/62/026/003/008/015
B152/B102

AUTHORS: Kheyker, D. M., Zevin, L. S., Konstantinov, I. Ye., and Alekseyev, V. A.

TITLE: Application of a proportional counter to x-ray diffraction studies

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 3, 1962, 388-394

TEXT: By applying a proportional counter the authors were able to reduce the relative background level in roentgenograms. The counter had beryllium side windows and was filled with a mixture of xenon (300 mm Hg) and isopentane (30 mm Hg). The amplitude resolution ($w = 2.36\sqrt{1.1/N}$, N is the number of initial ion pairs produced by one quantum) for CuK_{α} was 13 % and the efficiency for the same line was 72 %. A block diagram of the experimental device is shown in Fig. 5. The amplification factor should be of the order of 10^5 and the noise amplitude should not exceed 1/10 of the signal amplitude. In order to reduce the background level,

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S/048/62/026/003/008/013
B152/B102

Application of a proportional...

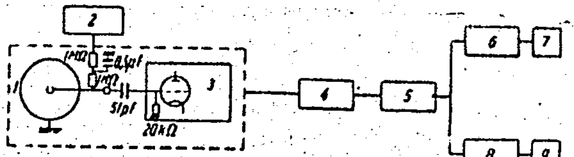
a preamplifier (factor 14) is connected in series to the counter. The CuK$_{\alpha}$ and FeK$_{\alpha}$ fluorescence lines are separated without additional changes. The FeK$_{\beta}$ and CoK$_{\alpha}$ pulses can be separated only when a channel is displaced and the CuK$_{\alpha}$ rate is lowered. CoK$_{\beta}$ and CuK$_{\alpha}$ are not separable. On inserting a β-filter also CuK$_{\alpha}$ and CuK$_{\beta}$ could be resolved. The investigation shows that roentgenograms can be improved when the background pulses are uniformly spread over the amplitudes. The collaborators of the SKB of x-ray tubes, above all M. I. Teuman and Ye. M. Fridman, are thanked for their assistance in the construction of the counter body. There are 7 figures, 3 tables, and 8 references: 2 Soviet and 6 non-Soviet. The four references to English-language publications read as follows: P. J. Black, J. B. Porsyth, J. Scient. Instrum., 36, no. 9, 392 (1959); A. R. Lang, J. Scient. Instrum., 33, no. 3, 96 (1956); Jun-ichi Chikawa, J. Phys. Soc. Japan, 15, no. 4, 602 (1960); W. Parrish, T. R. Koller, Rev. Scient. Instrum., 27, no. 10, 795 (1956).

Card 2/3

Application of a proportional... S/048/62/026/003/008/013
B152/B102

ASSOCIATION: NIIasbesttsement, Moskovskiy inzhenerno-fizicheskiy institut (Scientific Research Institute of Asbestos and Cement, Moscow Engineering Physics Institute)

Fig. 5. Block diagram of the experimental device for the proportional counter: (1) proportional counter, (2) high-voltage rectifier "Orekh", (3) preamplifier of УШ-2 (USh-2), (4) base amplifier УШ-10 (USh-10), (5) differential discriminator ААДО-1 (AADO-1), (6) intensimeter ИСС (ISS), (7) automatic recorder ЭПП-09 (EPP-09), (8) scaler, (9) electromechanical counter.



Card 3/3

Fig. 5

ZEVIN, L.S.; KHEYKER, D.M.

X-ray diffraction method for determining the dimensions of crystallites in large crystalline samples. Zav.lab. 28 no.5: 583-590 '62. (MIRA 15:6)

1. Nauchno-issledovatel'skiy institut asbotsementa.
(X rays--Diffraction) (Crystallography)

KHEYKER, D.M.; ZEVIN, L.S.; KONSTANTINOV, I.Ye.; ALEKSEYEV, V.A.

Use of a proportional counter for X-ray diffraction analyses. Izv. AN SSSR. Ser. fiz. 26 no.3:388-394 Mr '62. (MIRA 15:2)

1. Nauchno-issledovatel'skiy institut slyudy, asbestotsementnykh izdeliy i proyektirovaniya stroitel'stva predpriyatiy slyudinoy promyshlennosti i Moskovskiy inzhenerno-fizicheskiy institut.

(Counting devices)
(X rays--Diffraction)

KHEYKER, Daniel' Moiseyevich; ZEVIN, Lev Saulovich; ZHDANOV, G.S.,
prof., red.; DUBNOVA, V.Ya., red.; PLAKSHE, L.Yu., tekhn.red.

[X-ray diffractometry] Rentgenovskaia difraktometriia. Pod red. G.S.Zhdanova. Moskva, Fizmatgiz, 1963. 380 p.
(MIRA 16:5)

(X rays--Diffraction)

ZEVIN, L.S.; UMANSKIY, M.M.; KHEYKER, D.M.

Geometrical aberrations and optimum conditions for X-ray diffraction measurements of polycrystals. Kristallografiia 8 no.4:663-673 Jl-Ag '63. (MIRA 16:9)

1. Nauchno-issledovatel'skiy institut asbesta, slyudy, asbestotsementnykh izdeliy i proyektirovaniya stroitel'stva predpriyatiy slyudyanoy promyshlennosti i Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

(X-ray crystallography)

S/032/63/029/002/021/028
B101/B186

AUTHORS: Kheyker, D. M., and Volkov, O. S.

TITLE: High-temperature attachment to the X-ray diffractometer

PERIODICAL: Zavodskaya laboratoriya, v. 29, no. 2, 1963, 225 - 227

TEXT: An attachment (Fig. 1) to the X-ray diffractometer is described which enables the error in measuring the diffraction reflexes to be reduced by vibrating the attachment at 25 cycles/min through an angle of 4°. This makes it possible to heat the specimen up to 1400°C and to carry out measurements in air, in vacuum or in inert gas. At 800°C the temperature difference within the specimen did not exceed 10°C. The circuit makes it possible to program the temperature rise. X-ray patterns of $3CaO \cdot SiO_2 \cdot 2H_2O$ were taken between 25 and 1425°C and the phase transitions became visible owing to the liberation of H_2O. There are 3 figures.

ASSOCIATION: Nauchno-issledovatel'skiy institut "NIIAsbesttsement" (Scientific Research Institute "NIIAsbesttsement")

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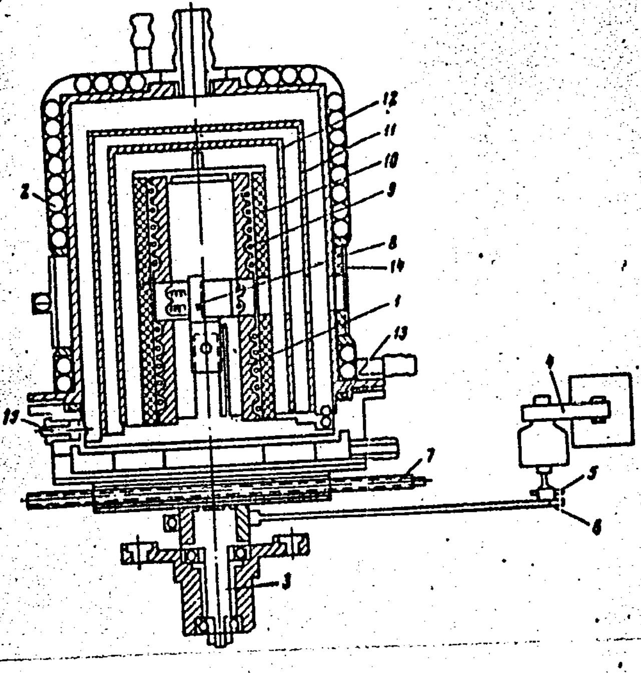
S/032/63/029/002/021/028
B101/B186

High-temperature attachment to...

Fig. 1. High-temperature attachment to the X-ray diffractometer.

Legend: (1) tube furnace; (2) water-cooled jacket; (3) axis; (4) electric motor; (5) cardioid; (6) lever; (7) adjusting screw; (8) specimen holder of platinum; (9) Pt-Rh heater, 800 w; (10) ceramic shield; (11) and (12) nickel shields; (13) rubber sealing; (14) sealing ring with beryllium windows; (15) inlet for heater and thermocouples.



BERKOVICH, T.M., kand. tekhn. nauk; KHEYKER, D.M., inzh.

Phase composition of calcium hydrosilicates in building materials processed by the high-temperature hydrothermal method. Trudy NIIAsbesttsementa no.8:3-24 '58.
(MIRA 16:8)

ZEVIN, L.S.; KHEYKER, D.M.

Geometric factors of diffractometric studies in carrying out phase analysis. Trudy NIIAsbesttsementa no.16:3-24 '63. (MIRA 16:8)
(Diffraction)

KHEYKER, D.M.; BERKOVICH, T.M.

Investigation of the composition of products of hydrothermal processing of lime and sand binders with the aid of X-ray phase analysis. Trudy NIIAsbesttsementa no.10:32-38 '59. (MIRA 16:8)

(Binding materials) (X-rays--Industrial applications)

KHEYKER, D.M.; VOLKOV, O.S.; ZEVIN, L.S.; LUBE, E.L.

Diffractometric equipment for phase analysis. Trudy NIIAsbesttsementa no.16:25-42 '63. (MIRA 16:8)

(X-ray diffraction examination)

VOLKOV, O.S.; KHEYKER, D.M.

Quantitative determination of clinker minerals by means of diffractometry. Trudy NIIAsbesttsementa no.16:43-55 '63. (MIRA 16:8)

(Cement clinkers) (Diffraction)

KHEYKER, D.M.; KONSTANTINOV, I.Ye.; ALEKSEYEV, V.A.

Use of detectors of X-ray detectors in diffractometry. Scintillation device for diffractometry. Trudy NIIAsbesttsementa no.10:3-24 '59. (MIRA 16:8)

(X-ray diffraction examination)

ZEVIN, L.S.; KHEYKER, D.M.

Methods of producing images of plane coarse-grained samples in the diffractometer. Zav.lab. 29 no.2:184-189 '63. (MIRA 16:5)

1. Nauchno-issledovatel'skiy institut asbesta, slyudy, asbestotsemntnykh izdeliy i proyektirovaniya stroitel'stva predpriyatiy slyudyanoy promyshlennosti.

(X rays--Diffraction)

KHEYKER, D.M.; VOLKOV, O.S.

High temperature attachment to X-ray diffractometer. Zav.lab. 29 no.2:225-227 '63. (MIRA 16:5)

1. Nauchno-issledovatel'skiy institut asbesta, slyudy, asbestotsementnykh izdeliy i proyektirovaniya storitel'stva predpriyatiy slyudyanoy promyshlennosti.

(X rays—Equipment and supplies)

ZEVIN, L.S.; KHEYKER, D.M.

Method of high-temperature and low-temperature diffractometric procedures. Trudy NIIAsbesttsementa no.10:25-31 '59. (MIRA 16:8)
(X rays--Diffraction)

VOLKOV, O.S.; GRACHEVA, O.I.; KHEYKER, D.M.

Studying the interaction of clinker minerals with silica by a method of X-ray quantitative phase analysis. Trudy NIIAsbesttsementa no.11:68-83 '61. (MIRA 16:9)

LUBE, E.L.; KHEYKER, D.M.

Automatic X-ray diffractometer with discrete recording and programmed control for the study of polycrystalline samples. Kristallografiia 8 no.3:440-445 My-Je '63. (MIRA 16:11)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut asbesta, slyudy, asbestotsementnykh izdeliy i proyektirovaniya stroitel'stva predpriyatiy slyudyanoy promyshlennosti Gosstroya SSSR.

ZEVIN, L. S.; UMANSKIY, M. M.; KHEYKER, D. M.

"The determination of optimal conditions of diffractometer registration of polycrystals in connection with geometrical aberrations."

report submitted for 6th Gen Assembly, Intl Union of Crystallography, Rome, 9 Sep 63.

Asbestos Cement Res Inst, Physics Dept, Moscow State Univ.

KHEYKER, D.M.; FLANTSBAUM, I.M.

Dehydration of tetracalcium aluminate hydrate. Rent.min.syr. no.3: 73-78 '63. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut asbestnotsementnykh izdeliy.

LUBE, E.L.; KSHNYAKINA, A.N.; KHEYKER, D.M.

Design of the control program and initial processing of experimental data of an automatic diffractometer by a multipurpose computer. Kristallografiia 10 no.1:99-104 Ja-F '65.

(MIRA 18:3)

1. Nauchno-issledovatel'skiy Fiziko-khimicheskiy institut imeni Karpova, Moskva.

KHEYKER, D.M.; FEYGIN, L.A.; YAKOVLEV, I.I.

Small-angle X-ray diffractometer with asymmetrical focusing monochrometer. Kristallografiia 10 no.3:447-449 My-Je '65. (MIRA 18:7)

1. Institut kristallografii AN SSSR i Nauchno-issledovatel'skiy institut asbesta, slyudy, asbestotsementnykh izdeliy i proyektirovaniya stroitel'stva predpriyatiy slyudyanoy promyshlennosti.

RUDNICHENKO, V.Ye.; DOBROTSVETOV, B.L.; KHEYKER, D.M.

Composition of ferrites in the system PbO - Fe_2O_3. Sbor. nauch. trud. Gintsvetmeta no.23:389-399 '65. (MIRA 18:12)

ZEVIN, Lev Saulovich; KHEYKER, Daniel' Moiseyevich

[X-ray methods of investigating building materials] Rentgenovskie metody issledovaniia stroitel'nykh materialov. Moskva, Stroiizdat, 1965. 361 p.
(MIRA 19:1)

ZEVIN, L.S.; SURMELI, D.D.; KHEYKER, D.M.

Method of determining the paraffin hydrocarbon content in oxidized petroleum bitumens. Trudy NIIAsbesttsementa no.10:39-44 '59. (MIRA 16:8)

(Paraffins) (Bitumen)

BERKOVICH, T.M.; KHEYKER, D.M.; GRACHEVA, O.I.; KUPREYEVA, N.I.

Composition of cement for the manufacture of autoclave asbestos cement. Trudy NIIAsbesttsementa no.10:54-75 '59. (MIRA 16:8)
(Asbestos cement)

L 15691-63 EWP(j)/EWT(m)/BDS AFFTC/ASD Pc-4 HM

ACCESSION NR: AR3003597 S/0081/63/000/008/0514/0514

SOURCE: RZh. Khimiya, Abs. 8M195

62
61

AUTHOR: Loginov, G. I., Sukhova, L. A., Kheykor, D. M.

TITLE: Determination of the extent of fluffiness of chrysotile asbestos by means of radioactive isotopes

15

TITED SOURCE: Tr. N.-i. in-t asbesta, slyudy*, asbesto-tsementn. izdeliy i proyektir. str-va predpriyatiy slyud. prom-sti, vy*p. 10, 1959, 85-90

TOPIC TAGS: chrysolite asbestos, surface measurement, radioactive tracer

TRANSLATION OF ABSTRACT: For the determination of the extent of fluffiness in chrysotile asbestos a method was used which was developed by the Institute of Physical Chemistry AN SSSR for the measurement of the specific surface of sand and cement. The method is based on the determination of the quantity of tagged atoms adsorbed on the surface being measured. As an adsorptive, the radioactive isotope Q sup 185 was adopted; it is relatively well adsorbed on the surface of

Card 1/2

L 15691-63

ACCESSION NR: AR3003597

chrysotile asbestos, but does not enter into chemical reaction with it. Experiments showed that on the first treatment of asbestos on rollers for 15 min. some increase takes place in the specific surface, which is characterized by an increase in the adsorbed WO sub 4 sup 2- by almost 23%. Fluffing on a colander following this for a period of 1 min. additional increases the quantity of adsorbed WO sub4 sup 2- ions by 45%. Subsequent fluffing for 5 min. is characterized by an increase in the quantity of adsorbed WO sub 4 sup2- ions of 58%. The sequence of values determined in the experiments agrees with the results obtained by the authors by other methods (on the apparatus of B. V. Doryagin, by the adsorption of nitrogen, by the heat of wetting, etc.). Ye. Shteyn

DATE ACQ: 12Jun63 SOB CODE: CH,MA ENCL: 00

Card 2/2

SUKHOVA, L.A.; PAKHOMOV, V.I.; LUKOSHKINA, L.A.; KHEYKER, D.M.

Use of tagged atoms for the investigation of the processes of waterproofing asbestos cement with sodium methyl and ethyl silicone. Trudy NIIAsbesttsementa no.10:91-102 '59. (MIRA 16:8)
(Asbestos cement) (Waterproofing)

KRAVCHENKO, I.V., kand.tekhn.nauk, DMITRIVYEV, A.M., inzh., VOLKOV, O.S.,
inzh., KHEYKER, D.M., kand.tekhn.nauk

Hydration products of clinker minerals in very deep oil wells.
Trudy NIITSement no.13:35-50 '60. (MIRA 13:11)
(Cement clinkers—Testing) (Oil well drilling)

KHEYKER, D.M.; ZALKIND, A.I.

Study of the dehydration of synthetic hydrosilicates, hydroaluminates, and sulfohydroaluminates of calcium. Trudy NIIAsbesttsementa no.11:3-41 '61. (MIRA 16:9)

17(
SOV/177-58-5-11/30

AUTHORS: Kheyker, M.I., Lieutenent-Colonel of the Medical Corps, Erlikh, Z.A., Captain of the Medical Corps

TITLE: Prophylaxis of Traumatism Caused by Sports Activities (O profilaktike sportivnogo travmatizma)

PERIODICAL: Voyenno-meditsinskiy zhurnal, 1958, Nr 5, pp 52 - 54 (USSR)

ABSTRACT: The authors base their article on clinical material covering injuries caused by sports activities (1952-1957) compared with the data of Kondrat'yev, Kryachko and Landa [Ref 1]. A total of 619 case histories of patients with serious injuries caused by sports activities were collected and evaluated. By analyzing the injuries, the authors ascertained certain regularities: seasonal prevalence of traumas caused by sports activities, their frequency in soldiers in the first year of service, more frequent injuries to the lower extremities, frequency of bone damages, predominance of closed fractures.

Card 1/2

KHEYL, I.

HEIL, I.

Main trends in the development of scientific research in the Academy of Sciences of the Estonian SSR in 1959 in the light of the resolutions of the 21st Congress of the Communist Party of the Soviet Union. In Russian. p. 211.

EESTI LCODUS (Eesti NSV Teaduste Akadeemja) Tartu, Estonia. Vol. 8, no. 3, 1959.

Monthly List of East European Accessions (EEAI), LC, Vol.8 No. ~~4~~ 12, ~~July~~ Dec., 1959.
Uncl.

KHEYL', I. G.

"Tasks of the Academy of Sciences of the Estonian SSR in the Field of Technical and Physicomathematical Sciences"
Izv. AN EstSSR, 2, No 1, 8-16, 1953

(No abstract.) (RZhGeol, No 6, 1954)

SO: Sum. 492, 13 May 55

S/023/60/000/003/010/012
C111/C222

AUTHOR: Kheyl',I.G., Academician-Secretary AS Esthonian SSR

TITLE: Principal Directions of the Scientific Work of Research and Organization of the Academy of Sciences of the Esthonian SSR for 1960

PERIODICAL: Izvestiya Akademii nauk Estonskoy SSR. Seriya Tekhnicheskikh i Fiziko-Matematicheskikh nauk, 1960, No.3, pp.268-272.

TEXT: Extracts of the report in the plenary meeting of the Academy of Sciences of the Esthonian SSR on March 16, 1960.
In the year 1960, 9.4 millions Rubels are available for new buildings.
The erection of an institute of cybernetics is projected.
The plan for 1960 includes 65 problems with 249 themes. Number of scientific collaborators 1054, total number 1300. 87 works will be finished, 21 of them will be given to an industrial examination.
Plan for individual domains:
1) Chemistry: Treatment of shales with thermic and chemical methods. Extraction of synthetic material, highly molecular combinations etc. from shale. Construction of automatic laboratory devices.
2) Technical Sciences: Complex utilization of hard inflammable matters,

Card 1/3

S/023/60/000/003/010/012
C111/C222

Principal Directions of the Scientific
Work of Research and Organisation of the Academy
of Sciences of the Esthonian SSR for 1960

production of cement from shale, complex utilization of mineral wealth in the domain of the Esthonian phosphorites, electrification of the agriculture, automatization.
Geology: Investigation of tertiary formations, of mineral wealth and of the distribution of ground water.
4) Physical-Mathematical Sciences: Automatization of 12 astronomical and axinometrical observations, automatic telescope system V.M.Tiyt for the observation of artificial satellites of the earth, development of computers, 16 photoelasticity and thin shells. 26
5) Biology-Medicine: Biological foundations of rational utilization of fauna and flora in the political economy, especially utilization of the reserves of fishes of the sea, the lakes and the rivers, artificial nourishing of the fishes, silvicultures on meadows, influence of radiation to physiology and hereditament, virus research, conditions of working in the shale industry, surgical treatment of tuberculosis, treatment of rheumatism with mud, diagnosis for urinary disorder, prophylaxis for ulcer.
6) History: Conflict for the Soviet force in Esthonia, Esthonia before the war, history of Esthonian workers and peasants, old Esthonian history.
Card 2/3

KHEIL, R.

"Economy in the operation of electric-power plants."

ENERGETIKA, Praha, Czechoslovakia, Vol. 9, no. 3, March 1959

Monthly List of East European Accessions Index (EEAI), Library of Congress, Vol. 8, No. 8, August 1959

Unclassified

KOVALEV, I.G., inzh.; KHEYLIK, V.Z., inzh.; SHADKHAN, V.M., inzh.

Efficiency in using new means of mechanizing ore mining operations at upper Kama potash mines. Gor.zhur. no.1:6-10 Ja '65. (MIRA 18:3)

1. Gosudarstvennyy proyektno-konstruktorskiy i eksperimental'nyy institut ugol'nogo mashinostroyeniya (for Kovalev, Kheylik).
2. Gosudarstvennyy soyuznyy institut po proyektirovaniyu predpriyatiy gornokhimicheskoy promyshlennosti (for Shadkhan).

KHEYLO, E.S.

Variations of the period of BH Lyrae. Per.zvezdy 14 no.1:56-58 Ja '62. (MIRA 17:3)

1. Glavnaya astronomicheskaya observatoriya AN UkrSSR.

KHEYLO, E.S.

Specification of the elements of BY Cassiopeiae. Per. zvezdy 14 no.2:131-135 Je '62. (MIRA 17:2)

1. Glavnaya astronomicheskaya observatoriya AN UkrSSR.

KHEYLO, E.S.

Processing the photograph of a meteor of August 24/25, 1957.
Astron.tsir. no.198:16-17 D '58. (MIRA 12:7)

1. Gosudarstvennaya astronomicheskaya observatoriya USSR.
(Meteors)

KHEYLO, E.S.

PHASE I BOOK EXPLOITATION SOV/5466

Akademiya nauk Ukrayins'koyi RSR. Holovna astronomichna observatoriya.

Izvestiya. t. 3, vyp. 1 (News of the Main Astronomical Observatory. v. 3, no. 1) Kiyev, 1960. 141 p. 1,000 copies printed.

Editorial Board: Resp. Ed.: A. A. Yakovkin, Sh. G. Gordeladze, and I. G. Kolchinskiy; Ed. of Publishing House: N. M. Labinova; Tech. Ed.: A. A. Matveychuk.

PURPOSE: This book is intended for astronomers.

COVERAGE: This is a collection of 15 articles in the field of
astronomy written by members of the Glavnaya astronomicheskaya observa-
toriya AN UkrSSR (Main Astronomical Observatory AS UkrSSR). The arti-
cles are based on original research carried out by the authors and
discuss the following topics: the precise position of stars and the
lesser planets; the total solar eclipse of June 30, 1954; corpuscular
streams of solar radiation (theoretical analysis); phenomena of the
moon's rotation (latest observations); luminescence
of comet tails and the characteristics of comets observed in
1956-57. The collection includes a report of the Observatory's
work in compiling a catalog of the brilliancy of stars, and a
catalog of 300 stars in the constellation of Aquila. No person-
alities are mentioned. Each article is accompanied by references.

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Card 3/4

Cherednichenko, V. I. Role of Solar Corpuscular and Photon Radiation in the Flares of Brilliancy in Comets 94

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AVAILABLE: Library of Congress

KHEYLO, Ernest Sergeyevich; SAKHAROVA, M.I., red.

[Life outside of the earth] Zhyttia za mezhamy Zemli. Kyiv, Naukova dumka, 1964. 62 p. (MIRA 17:11)

SKORIK, K.Ye.; KHEYLO, E.S.

Microphotometer with a photomultiplier. Izv.Glav.astron.obser.AN URSR 3 no.2:132-137 '61. (MIRA 14:4)

(Microphotometer)

SKORIK, K.Ye.; KHEYLO, E.S.

Microphotometer with a photomultiplier. Izv. Glav. astrop. obser. AN URSR 3 no. 2:132-137 '61. (MIRA 14:5)
(Microphotometer)

10012
S/035/62/000/008/047/090
A001/A101

3,2440

AUTHOR: Kheylo, E. S.

TITLE: Determination of meteor velocity with a small convergence angle

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 8, 1962, 83, abstract 8A580 ("Izv. Gl. astron. observ. AN USSR", 1960, v. 3, no. 1, 119 - 125)

TEXT: The "angle of convergence" is defined as an angle between projections onto the celestial sphere of meteor tracks among the stars, visible simultaneously from two points. The method of processing photographs and determining velocities of meteors with a small convergence angle is described. By employing the interpolation method of processing, an error in determining the coordinates of a radiant amounts to 1 - 2° and may be considerably larger for meteors with small convergence angles. This leads to large errors in determining meteor velocities. Thus, the error in determining the velocity of a meteor on August 24/25, 1957, photographed at KAO, amounted to ±1.3%. Another method of calculating meteor velocities is considered. The angular distance of the given point of a

X

Card 1/2

VOROSHILOV, Vladimir Ivanovich; GORDELADZE, Shalva Georgiyevich;
KOLESNIK, Lidiya Nikolayevna; LUKATSKAYA, Frina Iosifovna;
FEDORCHENKO, Galina Leonidovna; KHEYLO, Ernest Sergeyevich;
MEL'NIK, T.S., red. izd-va; RAKHLINA, N.P., tekhn. red.

[Catalog of photographic, photovisual and photo red magnitudes of 22000 stars] Katalog fotograficheskikh fotovizual'nykh i fotokrasnykh velichin 22000 zvezd. Kiev, Izd-vo Akad. nauk USSR, 1962. 173 p. charts. (MIRA 15:7)

(Stars—Catalogs).

40798
S/263/62/000/017/010/011
I011/I211

3,1240

AUTHORS: Skorik, K. Ye., and Kheylo, E. S.

TITLE: A microphotometer with a photomultiplier

PERIODICAL: Referativnyy zhurnal. Otdeln'yy vypusk, Izmeritel'naya tekhnika, no. 17, 1962, 56, abstract 32.17.382. "Izv. Gl. astron. observ. AN USSR", 1961, v. 3, no. 2, 132-137

TEXT: A Markov type microphotometer was assembled at the Main astronomical observatory of the AS Ukr SSR. The mechanical part of the instrument was made according to the observatory drawings at the Physics institute of the AS Ukr SSR. This part and to a considerable extent the optical one were adopted from the double spectro jector. The photometer is mounted on two plates connected together by four stand. A screen with an opening on the optical axis of the objectives is fixed to the lower plate. The opening in the screen is covered by a disc with a set of circular diaphragms of 19.0-1.7 mm diameters. The ФЭУ-22 (FEU-22) photo-multiplier is placed under the screen. The stage which is moved by a vernier is placed on the upper plate. The light ray is collected by a condenser and the objective on the photometered area of the plate. This area is focused by the objective to the screen. A Fabri lens is placed in front of the photomultiplier to focus the image of the objective on its cathode. The recording part of the photometer consists of an illuminator, a ГЗС-47 (GZS-47) galvanometer and a reading scale. Results of tests on the instrument operation

Card 1/2

A microphotometer with a photomultiplier

S/263/62/000/017/010/011
I011/I211

stability and the accuracy of its reading are given. It is stated that the photometer does not introduce any systematic errors into the measurements and that the accuracy of measurement with the given photometer is not lower than with the MΦ-2 (MF-2) and MΦ-4 (MF-4) photometers. There are 5 figures.

[Abstracter's note: Complete translation.]

Card 2/2

MURIN, A.; KHEYMAN, A.

[redacted]

On the abstract "Defects of silver bromide lattices." Usp. fiz. nauk 51 no.3:430-431 N '53. (MLRA 6:12)
(Silver bromide) (Crystallography)

MOCHALOV, V.A.; MATYUSHCHENKO, D.D.; KRIVITSKIY, A.A.; GLEZER, G.N.;
OPARIN, I.M.; KHEYMAN, E.L.; SMETNEV, N.N.; EPSHTEYN, A.L.;
GUSEV, B.Ya.; LEYKIN, L.P.; MARCHENKO, G.M.; FISHKOV, V.G.;
SAPROVSKIY, S.V.; LYAKHOVSKIY, I.I.; SMELYAKOV, Ye.P.; VAYNTRAUB,
D.A.; BUDYLIN, M.M.; NOTKIN, Ye.M.; KUR, G.Ye.; ARONSHTEYN, N.A.;
SUKHAREV, V.I.; VINOGRADOV, K.N.; BOBROVSKIY, N.S.

Innovators' certificates and patents. Mashinostroenie no. 2:
103-109 Mr-Ap '64. (MIRA 17:5)

L 5291-66

ACC NR: AP5022026 SOURCE CODE: UR/0286/65/000/014/0098/0098

AUTHORS: Glezer, G. N.; Oparin, I. M.; Kheyman, E. L.

31
B

ORG: none

TITLE: Transistorized chopper. Class 46, No. 173067

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 98

TOPIC TAGS: engine ignition system, transistorized circuit

ABSTRACT: This Author Certificate presents a transistorized chopper, e.g., for battery ignition systems of internal combustion engines. To protect the transistorized chopper from voltage surges when switching the ignition coil current, a varistor is connected in parallel with the collector-base junction of the transistorized chopper.

SUB CODE: PR, EC/ SUBM DATE: 01Feb64/ ORIG REF: 000/ OTH REF: 000

8C

Card 1/1

0901 0481

L 5292-66

ACC NR: AP5022028 SOURCE CODE: UR/0286/65/000/014/0099/0099

AUTHORS: Glezer, G. N.; Oparin, I. M.; Kheyman, E. L.

31

B

ORG: none

TITLE: Battery ignition system for internal combustion engines. Class 46, No. 173069

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 99

TOPIC TAGS: engine ignition system, transistorized circuit

ABSTRACT: This Author Certificate presents a battery ignition system for internal combustion engines. The system contains a dc supply, an ignition coil, transistors (one or more), a chopper, and a transformer. The primary of the ignition coil is connected in the emitter-collector circuit, the chopper contacts are connected in the base circuit, and the secondary of the transformer is connected in parallel with the base-emitter junctions (see Fig. 1). To simplify the design, the primary of the transformer is connected in parallel with the primary of the

Card 1/2

0901484

L 5292-66
ACC NR: AP5022028

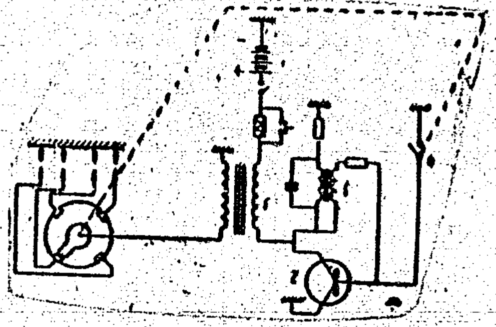

Fig. 1. 1- dc supply; 2- transistor; 3- primary of ignition coil; 4- chopper; 5- secondary of transformer

ignition coil. Orig. art. has: 1 diagram.

SUB CODE: PR/ SUBM DATE: 26Dec62/ ORIG REF: 000 OTH REF: 000

8C

Card 2/2

L 20927-66 EWT(1)/FSS-2/ETC(f)/EWG(m)

ACC NR: AP6002579 (A) SOURCE CODE: UR/0286/65/000/023/0071/0071

AUTHORS: Glezer, G. N.; Oparin, I. M.; Kheyman, E. L.

39

B

ORG: none

29,855

855

TITLE: Battery ignition system for internal combustion engines. Class 46, No. 176752

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 71

TOPIC TAGS: internal combustion engine component, engine ignition system

ABSTRACT: This Author Certificate presents a battery ignition system for internal combustion engines. The system contains a dc source, an ignition coil, a transistor, and a transformer. The primary of the ignition coil is connected in the emitter-collector circuit of the transistor, and the breaker contacts are connected in the base circuit. The transformer secondary is connected in parallel with the base-emitter junction of the transistor. To create active cutoff of the transistor with minimal values of power and transformer size, the transformer primary is connected in series with the breaker contacts in the base circuit of the transistor (see Fig. 1). To improve the operating characteristics, several

2

Card 1/2 UDC: 621.43.044.9

L 20927-66

ACC NR: AP6002579

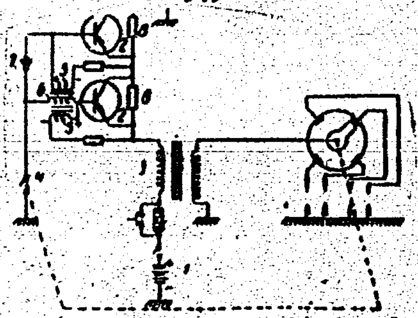

Fig. 1. 1 - dc source; 2 - transistors; 3 - coil primary; 4 - breaker; 5 - transformer secondaries; 6 - transformer primary; 7 - protective diode; 8 - resistances.

transistors are connected in series (the collector of one transistor is connected to the emitter of the other). The bases are connected in parallel through protective diodes. The base-emitter junctions are shunted by the transformer secondaries. The transformer primary is connected in the base circuit of one or several transistors. To equalize the transistor voltages, equal resistances are connected between the emitter and collector of each transistor. Orig. art. has: 1 diagram.

SUB CODE: 21/ SUBM DATE: 26Nov62

Card 2/2 ULR

L 27894-66 EWT(1)

ACC NR: AP5022027 SOURCE CODE: UR/0286/65/000/014/0099/0099

AUTHORS: Glezer, G. N.; Oparin, I. M.; Kheyman, E. L.

6

B

ORG: none

TITLE: Contactless detector. Class 46, No. 173068

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 99

TOPIC TAGS: engine ignition system, transistorized circuit

10

ABSTRACT: This Author Certificate presents a contactless detector for controlling a transistorized chopper in a battery ignition system of internal combustion engines. The detector contains a power supply, an induction coil, and a transistorized chopper. To increase the amplitude stability of the controlling pulse with changes in engine speed and the operation reliability of the whole ignition system, the detector is in the form of a self-excited oscillator with variable magnetic coupling between the tank circuit coils. Feedback is varied with a shaped screen which is connected to the engine shaft and is rotated between the magnetic circuits of the mentioned coils.

Card 1/2

09010482

L 27894-66

ACC NR: AP5022027

SUB CODE: PR, EC/ SUBM DATE: 04Jul63/ ORIG REF: 000/ OTH REF: 000

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Card 2/2 ~~So~~

L 44572-66

ACC NR: AP6015721 (A) SOURCE CODE: UR/0413/66/000/009/0169/0169

INVENTOR: Oparin, I. M.; Glezer, G. N.; Kheyman, E. L.

5
B

ORG: none

TITLE: Battery ignition system. Class 46, No. 152362

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 169

TOPIC TAGS: ignition system, battery ignition system

ABSTRACT: This Author Certificate introduces a battery ignition system for engines with carburators consisting of battery, ignition coil, contact breaker, and two semiconductor triodes used as a current commutator in the primary winding of the ignition coil. To improve ignition reliability, the semiconductor triodes are connected in series with respect to current and reverse voltage, while the primary winding of the ignition coil is connected into the emitter or collector circuit. To increase the power of the ignition coil at low breaking current on the breaker contacts, the primary

Card 1/2

L 44572-66

ACC NR: AP6015721

0

winding of the ignition coil is divided into two sectors in phase opposition to each other. One sector is in the collector circuit of the first triode and the other is in the emitter circuit of the second triode. [Translation] [LD]

SUB CODE: 21/ SUBM DATE: 29Dec61/

Card 2/2

KhEYMAN, F.B.

KHEYMAN, F.B.

Readers' conference held in Minsk. Arkh.anat.gist. i embr. 34 no.5:
111-112 S-O '57. (MIRA 11:1)
(MORPHOLOGY--PERIODICALS)

KHEYMAN, L. R.

SMIRNOV, V.S.; USOV, S.V.; KOSTENKO, M.P.; HEYMAN, L.R.; ZAYTSEV, I.A.;
SHRAMKOV, Ye.G.; NESGOVOROVA, Ye.D.; PAL'IIR, Ye.A.

Professor L.M. Piotrovksii; on his 70th birthday and 45th anniversary of scientific and pedagogical activities. Elektrichestvo no.2:93 F '57. (MLRA 10:3)
(Piotrovskii, Liudvik Mar'ianovich, 1886-)

KHEYMAN, M.B.

Investigation of the Diffusion of Iron in Iron Nickel Alloys. M. B. Heiman and A. Ya. Shinyaev. [illegible] 192. [illegible] nickel and Armco iron were annealed and the diffusion co-efficient determined from a coating of electrodeposited iron containing ^{59}Fe.

KHEYNMAN, Solomon Aronovich; KOMAROVA, T.F., red.; SAVCHENKO, Ye.V., tekhn.red.

[Improving production organization in industrial enterprises] Sovershenstvovanie organizatsii proizvodstva na promyshlennykh predpriiatiiakh. Moskva, Izd-vo "Znanie," 1960. 47 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.3, Ekonomika, no.18). (MIRA 13:6)
(Industrial management)

KATS, Yakov Davidovich; KHEYNMAN, S.A., red.; KHUTORSKAYA, Ye.S.,
red.izd-va; DOBUZHINSKAYA, L.V., tekhn.red.

[Collection of problems on industrial statistics] Sbornik
zadach po promyshlennoi statistike. Moskva, Gos.nauchno-tekhn.
izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 139 p.
(MIRA 13:6)

(Industrial statistics)

ABRAMOVA, G. V., GORSHTEYN, G. I., GUREVICH, R. Ye., and KHEYMETS, A. M.
(Leningrad Plant "Krasnyy Khimik")

"Utilization of Radioactive Isotopes in the Development of Processes for Obtaining and Purifying Chemical Reagents"

Isotopes and Radiation in Chemistry, Collection of Papers of 2nd All-Union Sci.Tech. Conf. on Use of Radioactive and Stable Isotopes and Radiation in National Economy and Science, Moscow, Izd-vo AN SSSR, 1958, 380pp.

This volume publishes the reports of the Chemistry Section of the 2nd AU Sci Tech Conf on Use of Radioactive and Stable Isotopes and Radiation in Science and the National Economy, sponsored by Acad. Sci. USSR and Main Admin for Utilization of Atomic Energy under Council of Ministers USSR, Moscow, 4-12 April 1957.

KHEYN, A.L.

Theory of the viscosity of liquids of G. M. Panchenkov. A. L. Khein. *Zhur. Fiz. Khim.* 22, 1513-21(1948).—The verification of P.'s theory (cf. *C.A.* 41, 7228*d*) is based on erroneous conclusions and improper calcns. Data and calcns. are given for benzene and CCl_4 for temps. from 0 to 75°, and for PrOH from 20 to 100°; they indicate that the exptl. values for the viscosities are many times those given by the P. equation. Similar results are obtained from data on MeOH and pentane. Finally, the theory is shown to be based on erroneous phys. foundations. P. H. Rathmann

KHEYN, A. L.

"Theory of Certain Cases of Liquid and Gas Inflow to Hydrodynamically Imperfect Wells." Sub 29 Jun 51, All-Union Sci Res Inst of Natural Gases (VNIIGaz)

Dissertations presented for science and engineering degrees in Moscow during 1951. Cand. Technical Sci.

SO: Sum. No. 480, 9 May 55

KHEYN, A. L.

USSR/Physics - Hydrodynamics 11 Jul 53

"Stationary Flow of a Liquid and Gas Toward Imperfect Wells,"① A. L. Kheyn, All-Union Sci-Res Inst of Natural Gases [VNIIGAZ]

DAN SSSR, Vol 91, No 2, pp 213-216

Author cites his article in the symposium entitled 'Sbornik. Voprosy Ratsional'noy Razrabotki Gazovykh Mestorozhdeniy' [Problems of the Rational Development of Gas Deposits], Trudy VNIIGAZ, 1953. Employs methods for integrating the hydrodynamic

276T93

partial-derivative equations established by ③ G. A. Grinberg (Izbrannyye Voprosy Matematicheskoy Teorii Elektricheskikh i Magnitnykh Yavleniy [Collected Problems of the Math Theory of Electrical and Magnetic Phenomena], published by Acad Sci USSR, 1946) to determine the distribution of velocity potential phi in a homogeneous cylindrical stratum with hydrodynamic imperfections. Presented by Acad A. I. Nekrasov.

KHEYN, A. L. 21 Jul 53

USSR/Physics - Hydrodynamics of Wells

"Nonstationary Filtration of a Liquid and Gas Toward a Well With an Open Face That Completely Exposes the Strata," A. L. Kheyn, All-Union Sci-Res Inst of Natural Gases (VNIIGAZ)

DAN SSSR, Vol 91, No 3, pp 467-470

Finds the formula that gives the dependence between (1) the pressure and (2) the constant output, reduced to normal conditions, of a fluid (oil, water, gas) at the face of well in the case of elastic filtration of a fluid following the Darcy law. Assumes that a horizontal, infinitely extending stratum of thickness h is exposed to a depth b by a well with open face and of radius r_w, and is isotopic, homogeneous throughout the thickness, with an impermeable cover and bottom, and is filled with a homogeneous compressible plastic fluid. Presented by Acad. A. I. Nekrasov 21 May 53. 262T80

KHEYN, A.L.

~~KEHYN, A. L.~~

11 Aug 53

USSR/Geophysics - Hydromechanics of Wells

"Nonstationary Flow of Fluid Gas to the Side of a Perforated Well During Constant Separation," A. L. Kehyn, All-Union Sci Res Inst of Natural Gases

DAN SSSR, Vol 91, No 5, pp 1039-1042

Attempts to find the relation between discharge and pressure during separation in a well, and the distribution of pressure in the layer of nonstationary filtration of fluid according to Darcy's law and at constant separation of fluid from the well. Derives eqs and presents solution in graphs. Presented by Acad A. I. Nekrasov 12 Jun 53.

266T72

KHEYN, A.L.

p. 2 PHASE I BOOK EXPLOITATION 1159

Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut

Dobycha, transport i pererabotka prirodnykh gazov (Production, Transportation, and Processing of Natural Gases) Moscow, Gostoptekhizdat, 1954. 213 p. (Series: Its: Trudy, vyp. 5) 1,000 copies printed.

Ed.: Ivanov, A.K.; Executive Ed.: L'vova, L.A.; Tech. Ed.: Polosina, A.S.

PURPOSE: The book is intended for scientific, engineering, and technical personnel of oil, gas, and related industries. It is also recommended for workers in scientific research institutes and graduate students in these fields of endeavor.

COVERAGE: This collection of articles is concerned with questions of production, transportation, and the technology of processing gas and gas products. The text presents the results of theoretical and experimental studies made on gas hydrodynamics of gas-bearing strata, gas well exploitation, physicochemical processing of nat-

Card 1/5

Production, Transportation (Cont.) 1159

ural gases, and research related to the construction and exploitation of gas pipelines, by the All-Union Instrument Scientific Research Institute (VNII) and the All-Union Scientific Research Institute of the Gas Industry (VNIIGAZ) between 1950-1952.

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Production, Transportation (Cont.) 1159

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Production, Transportation (Cont.) 1159

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Kel'tsev, N.V., Khalif, A.L. Study of the Specific Surface of Adsorbents in Propane Adsorption 208

AVAILABLE: Library of Congress

MM/sfm
2-11-59

Card 5/5

KHEYN, A.L.

KHEYN, A L.

Hein, A. L. Unsteady flow of liquid and gas into an imperfect sink. Dokl. Akad. Nauk SSSR (N.S.) 96, 33-36 (1954). (Russian) 1 - F/W

This article and an earlier one by the same author [same Dokl. (N.S.) 95, 33-36 (1954)] describe problems of unsteady flow or filtration into an "imperfect" sink, imperfect because the flow is dependent upon the direction on entry, α. In both papers an infinite permeable slab is bounded by impermeable layers at $z=0$, $z=h$. In the earlier paper, the potential Φ is given on the lateral surface $r=r_0$, whereas in the present paper $\partial\Phi/\partial r$ is specified there. A series form of solution is found by an operational method. *R. E. Gaskell* (Seattle, Wash.).

Name	KHEYN, Abram L'vovich
Dissertation	Theory and Experimental Study of the Influx of Liquid and Gas in Hydrodynamic Incomplete Petroleum Wells
Degree	Doc Tech Sci
(?) Affiliation	/not indicated/
Defense Date, Place	25 Nov 55, Council of the All-Union Petroleum and Gas Sci Res Inst
Certification Date	29 Dec 56
Source	BMVO 7/57

GENKIN, M.A.; [illegible]

Method for optimum drilling of gas wells. Gaz.prom no.1:9-12 Ja '56.
(MIRA 10:1)

(Boring) (Gas, Natural)

SOV/124-57-9-10663

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 9, p 118 (USSR)

AUTHOR: Kheyn, A. L.

TITLE: An Approximate Theory for Determination of the Steady Inflow of a Liquid and a Gas to Imperfect (With Respect to Wall Permeability) Wells With a Meridionally-symmetrical Bottom Design (Priblizhennaya teoriya ustanovivshegosya pritoka zhidkosti i gaza k nesovershennym skvazhinam s meridional'no-simmetrichnoy konstruktsiyey zaboya)

PERIODICAL: Tr. Vses. neftegaz. n.-i. in-t, 1956, Nr 8, pp 142-178

ABSTRACT: The topics indicated in the title of the article are being examined in the course of the development of the results of an earlier work by the author (RZhMekh, 1954, abstract 3048). By employing certain combinations of Bessel functions, the coefficients of which he calls structural characteristics, the author obtains an expression for the coefficient of imperfection of a well (also introduced by the author) in the form of a fairly complex binary series. In deriving this expression, the author utilizes the Grinberg method in conjunction with the hypotesis by I. A. Charnyy (RZhMekh, 1953, abstract 230)

Card 1/2

SOV/124-57-9-10663

An Approximate Theory for Determination of the Steady Inflow (cont.)

which states that at a given total yield the mean-weighted potential over the drainage surface which has been created by the penetration of the well remains essentially unaffected if the actually non-uniform distribution of the liquid flow is assumed to be uniform. Expressions for the structural characteristics mentioned above are derived for certain types of meridionally-symmetrical well strainers with continuous vertical slots; strainers with horizontal slots; wells which do not completely penetrate a reservoir and which possess no bottom influx, etc.). Further, the author also introduces so-called characteristic parameters of seepage flow: The ratio of the effective cross section of the imperfect flow under consideration to the area of the effective cross section of a corresponding perfect flow; the "coefficient of dispersion" of a flow, etc. The relationship between these parameters and the coefficient of imperfection of a well is determined for various types of well strainers. The theory proposed is compared, for some instances, with full-scale experiment and with data of electrohydrodynamic analog studies. Bibliography: 9 references.

G. I. Barenblatt

Card 2/2

MINSKIY, Ye.M.; KHRYN, A.L.

High-producing gas wells. Gaz.prom no.1:2-7 Ja '57. (MIRA 10:1)
(Gas wells)

SOV/124-58-11-12902

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 11, p 149 (USSR)

AUTHOR: Kheyn, A. L.

TITLE: The Unsteady Advection of Liquid and Gas to a Circular Battery of Shallow Wells Placed in an Infinite Stratum (Neustanovivshiysya pritok zhidkosti i gaza k krugovoy batareye nesovershennykh obsazhennykh skvazhin v beskonechnom plaste)

PERIODICAL: Tr. Vses. neftegaz. n.-i. in-t, 1957, Nr 10, pp 25-39

ABSTRACT: Utilizing the method previously described by the author an approximate expression is found for the mass flow-rate potential on the bottom of a single shallow well under conditions of unsteady seepage in an unlimited stratum in the case of an elastic regime. An approximate solution is provided for the problem of the interaction of shallow wells located symmetrically in a circular battery. Bibliography: 8 references.

V. P. Pilatovskiy

Card 1/1

KHEYN, A.L.

Calculating well bottom pressures in a circular series of water drive wells of imperfect penetration. Trudy VNII no.10:40-52 '57. (MIRA 14:6)

(Oil field flooding)

KHEYN, A.L

11(4) PHASE I BOOK EXPLOITATION SOV/1868

Nauchno-tekhnicheskoye obshchestvo neftyanoy promyshlennosti

Puti razvitiya gazovoy promyshlennosti SSSR; materialy Vsesoyuznogo soveshchaniya (Trends in the Development of the Gas Industry in the USSR; Materials Presented at the All-Union Conference) Moscow, Gostoptekhizdat, 1958. 132 p. 3,000 copies printed.

Eds: A.D. Brents, B.S. Itel'son, P.G. Musinarov, Ye.A. Krems, V.I. Popov, V.N. Nosikov, N.I. Ryabtsev, F.A. Trebin, A.S. Bal'levich; Exec. Eds.: V.N. Nosikov, N.I. Ryabtsev, F.A. Trebin, A.S. Bal'levich; Exec. Eds.: N.I. Stepanchenko and N.N. Novikova; Tech. Ed.: E.A. Mukhina; Editorial Board: N.V. Sidorenko (Chief Ed.), K.S. Basniev, Ye.A. Krems, V.N. Nosikov, and N.I. Ryabtsev.

PURPOSE: The book is intended for specialists engaged in the production and gathering of natural gas, the extraction of gas from coal and shale, the construction and operation of trunk gas pipelines, gas supply to cities, and the processing of gas.

Card 1/11

COVERAGE: The authors review the basic trends in the development of the USSR gas industry, the prospecting and exploration of new gas deposits, the gasification of solid fuels, the gathering and utilization of natural gas, the automation of gas field operations, the exploitation of gas wells, and ways to increase output. They further discuss the processing of natural gas with application of refrigeration, the experience gained in the laying and operating of trunk gas pipelines, the automation of gas pipeline operation, and underground gas storage facilities. There are no references.

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Card 4/11

LEVYKIN, Ye.V.; KHEYN, A.L.

Method for calculating the process of pumping gas into the water-bearing bed for the purpose of underground gas storage. Gaz.prom. 4 no.1:38-41 Ja '59. (MIRA 12:1)
(Gas, Natural--Storage)

Kheyn, A.L.

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Razrabotka i ekspluatatsiya gazovykh mestorozhdeniy, transport gaza (Development and Exploitation of Gas Fields, Transportation of Gas) Moscow, Gostoptekhizdat, 1959, 353 p. (Series: Its: Trudy, vyp. 5/13/) Errata slip inserted. 1,500 copies printed.

Sponsoring Agency: Glavnoye upravleniye gazovoy promyshlennosti pri Sovete Ministrov SSSR.

Eds.: Ye. M. Minskiy and V.N. Raaben; Exec. Ed.: M.P. Martynova; Tech. Ed.: A.S. Polosina.

PURPOSE: This collection of articles is intended for scientists, engineers, and technicians associated with the gas industry.

COVERAGE: The articles discuss the development of gas fields, natural gas recovery, gas transportation, and subsurface gas conservation. Gas field operating conditions are analyzed from the commercial point of view. The author notes that due to the specific geological conditions prevailing in the Soviet Union the application of gas extraction methods of the type used in the USA

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is not always advantageous. Individual articles discuss problems of the development of gas fields with narrow oil containing fringes, the theory of gas inflow, the study of gas well performance, gas filtration dynamics, and the study of gas condensates. A number of articles are devoted to the study of unstabilized gas flow in pipelines, and discuss theoretical problems connected with the performance of gas ejectors and compressors. The authors also deal with corrosion of the inner surface of gas pipelines. Conclusions made by the authors are supported by mathematical calculations. No personalities are mentioned. References accompany each article.

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